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| USPTO Form 1449 | | U.S. Department of Commerce Patent and Trademark Office | | Attorney Docket No. 4522/00018 | | Serial No. 10/621,079 | |
| INFORMATIONAL DISCLOSURE CITATION Page 1 of 1 | | | | Applicant(s): Wikiel, et al. | | | |
| | | | | Filing Date: July 16, 2003 | | Group: | |
| NON PATENT LITERATURE DOCUMENTS (Include the name of the Author, (IN CAPITAL LETTERS), title of the Article (when appropriate), title of the item, date, page(s), volume issue number(s), publisher, city and/or country where published. | | | | | | | |
| AA | | DIETZ, K., "Fine Lines in High Yield (Part LIII): Organic Additives in Copper Plating Baths (Part II)", CircuTree, 13(3), 2000, 54. | | | | | |
| AB | | MOFFAT, T. P., et al. "Superconformal Electrodeposition of Copper in 500-90 nm Features", Journal of the Electrochemical Society, 147 (12), 4524-4535, 2000. | | | | | |
| AC | | MOFFAT, T. P., et al. "Superconformal Electrodeposition of Copper", Electrochemical and Solid-State Letters, 4 (4), C26-C29, 2001. | | | | | |
| AD | | MOFFAT, T. P., et al. "Superconformal Electrodeposition in Sumbicron Features", Phys. Rev. Lett., 87, 2001, 16102. | | | | | |
| AE | | JOSELL, D., et al. "A Simple Equation for Predicting Superconformal Electrodeposition in Sumbmicrometer Trenches", Journal of the Electrochemical Society, 148 (12), C767-C773, 2001. | | | | | |
| AF | | DIETZ, K., "Fine Lines in High Yield (Part LIV): Organic Additives in Copper Plating Baths (Part Ia)", CircuTree, 13(2), 2000, 22. | | | | | |
| AG | | SHAH, et al., "Combination of the Mahalanobis Distance and Residual Variance Pattern Recognition Techniques for Classification of Near-Infrared Reflectance Spectra", Anal. Chem., 1990, 62, 465-470. | | | | | |
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| EXAMINER <i>Nathan H. Brown, Jr.</i> | | | | DATE CONSIDERED <i>12/16/05</i> | | | |
| <small>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant. **Copies of references not provided at the time of this submission.</small> | | | | | | | |

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US03/22151

| A. CLASSIFICATION OF SUBJECT MATTER | | |
|--|--|--|
| IPC(7) : C25D 21/12, 5/00, 21/18 | | |
| US CL : 205/81, 82, 101 | | |
| According to International Patent Classification (IPC) or to both national classification and IPC | | |
| B. FIELDS SEARCHED | | |
| Minimum documentation searched (classification system followed by classification symbols) | | |
| U.S. : 205/81, 82, 101 | | |
| Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched | | |
| Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) | | |
| EAST | | |
| C. DOCUMENTS CONSIDERED TO BE RELEVANT | | |
| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
| Y, P | US 6,471,845 B1 (DUKOVIC et al) 29 October 2002 (29.10.2002), cols. 1-14. | 1-55 |
| Y | US 5,368,715 A (HURLEY et al) 29 November 1994 (29.11.1994), cols. 1-9. | 1-55 |
| Y | US 6,365,033 B1 (GRAHAM et al) 2 April 2002 (02.04.2002), cols. 1-13. | 1-55 |
| <input type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/> See parent family annex. | | |
| * Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "C" earlier application or patent published on or after the international filing date "I" document which may throw doubts on priority claims or which is cited to establish the publication date of another claim or other special reason (as specified) "O" document referring to an oral disclosure, etc. exhibition or other means "P" documents published prior to the international filing date but later than the priority date claimed "T" later documents published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "Z" documents member of the same patent family | | |
| Date of the actual completion of the international search | | Date of mailing of the international search report |
| 29 October 2003 (29.10.2003) | | 13 NOV 2003 |
| Name and mailing address of the ISA/US | | Authorized officer |
| Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (703)305-3230 | | Wesley A. Nicolas Telephone No. (703) 308-1193 |

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Nathan H. Browne Jr. 12/16/05